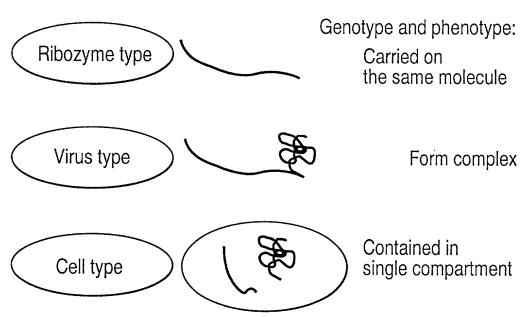
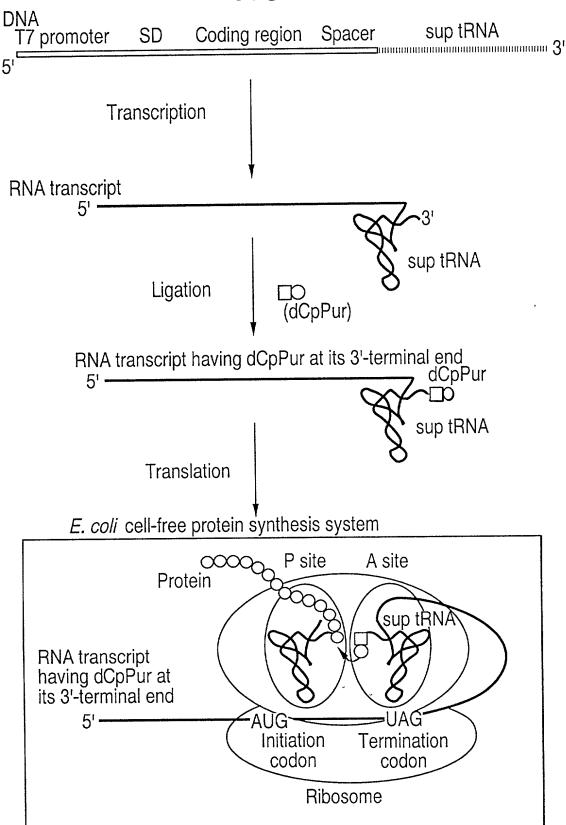
FIG. 1
STRATEGY FOR ASSIGNING GENOTYPE TO PHENOTYPE



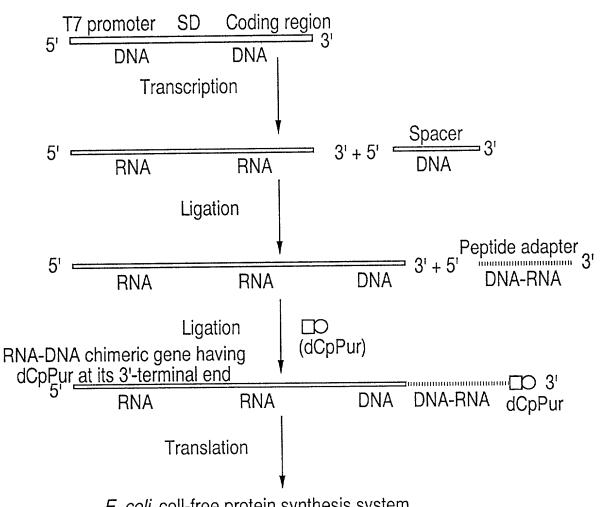
Strategies for assignment are logically classified into three patterns.

FIG. 2



2'-Deoxycytidylpuromycin (dCpPur)

FIG. 4



E. coli cell-free protein synthesis system

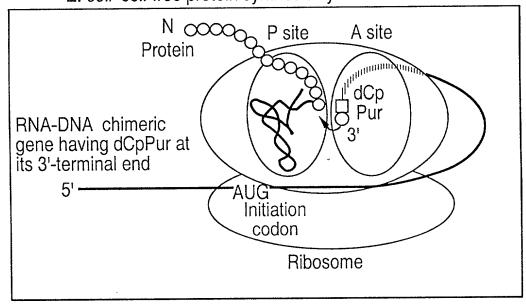


FIG. 5

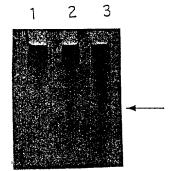


FIG. 6

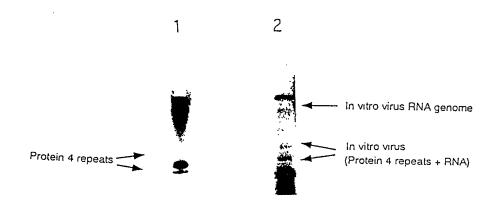
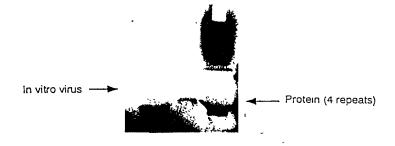
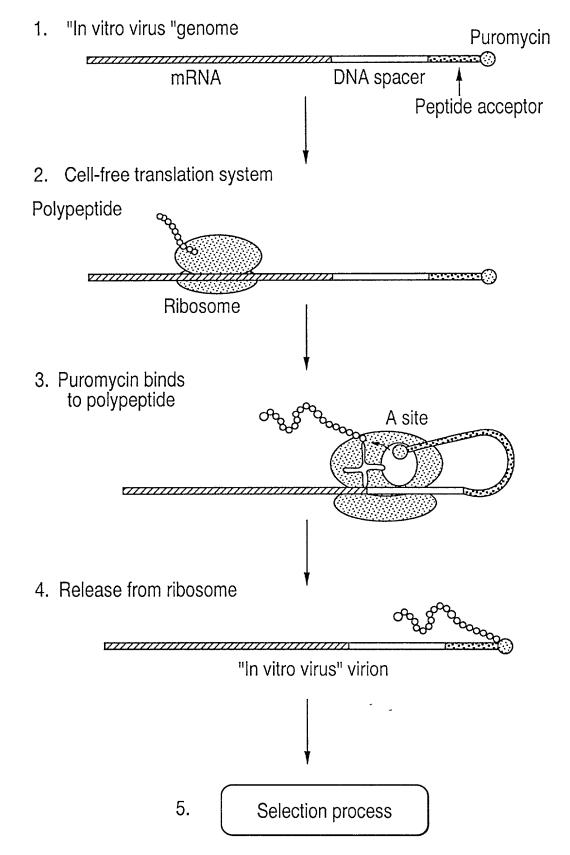
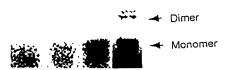


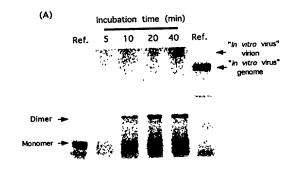
FIG. 7





Termination codon + - 
DNA spacer - + Ref





(B) 1 2 3

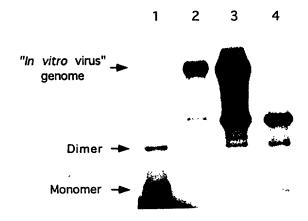


FIG. 12

Amplification

Transcription

Ligation of puromycin to spacer

Mutation introduction

Reverse transcription PCR

Virus completion

Selection process